



# Exploring Factors Influencing Adult Income

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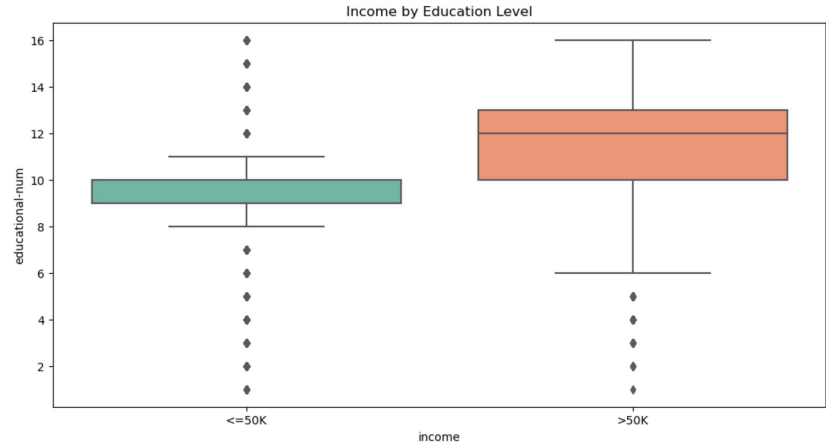
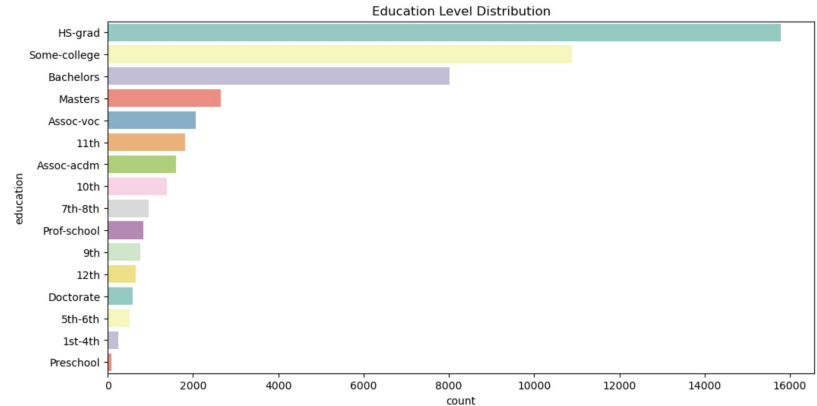
# Introduction

- The main objective of the data is to identify key factors that influence whether an individual earns more than \$50,000 annually.
- Data was collected from 48,842 individuals
- The data is also based off of 15 different categories such as age, education, occupation, work hours, marital status, etc



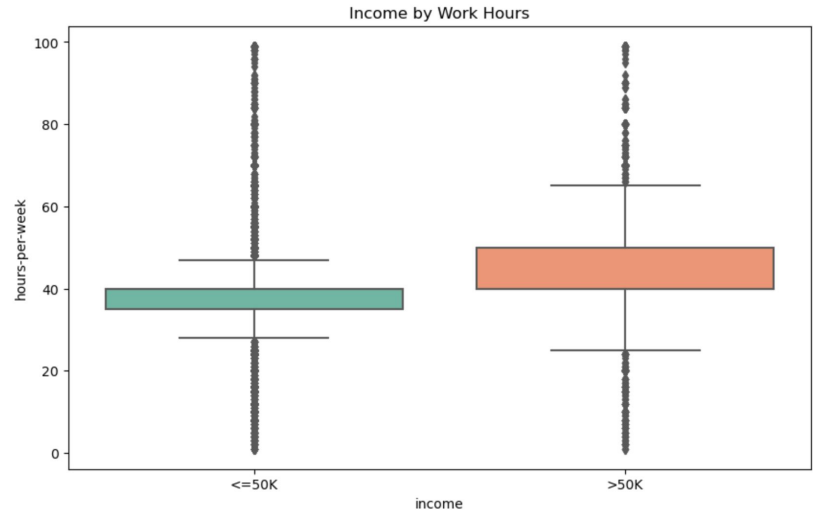
# What Can We Count?

- The number of individuals in each income group ( $\leq 50K$  and  $>50K$ ).
- How many earn  $> \$50K$  by education level, occupation, gender, and marital status.
- The charts shows how higher education levels correlate with a greater likelihood of earning  $> \$50K$ .

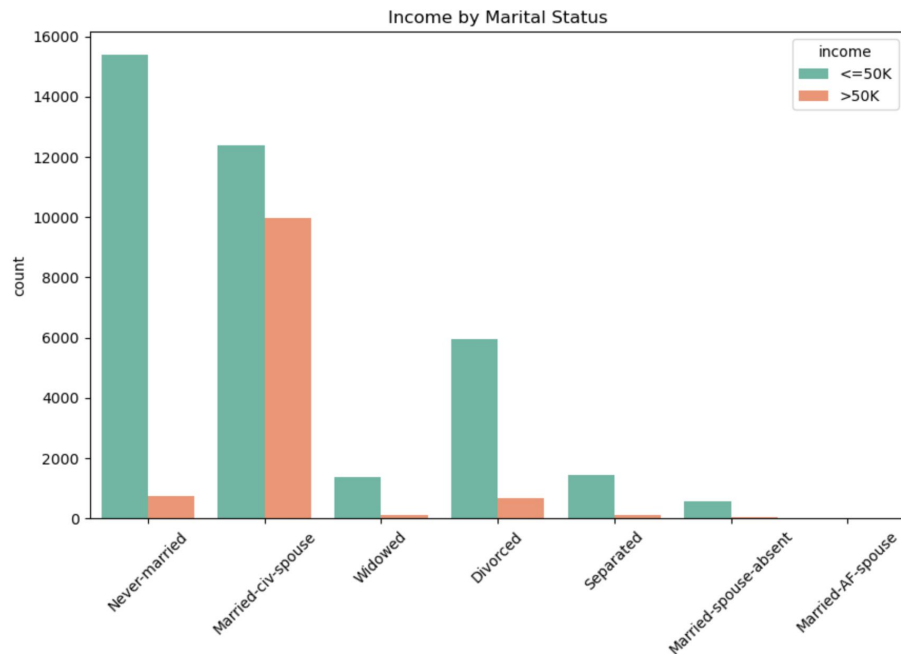


# What are the trends?

- Higher education and certain occupations (e.g., supervisory roles) are linked to higher income.
- Work hours generally correlate with income, but extremes may result in lower income.
- Moderate work hours are often associated with higher income.



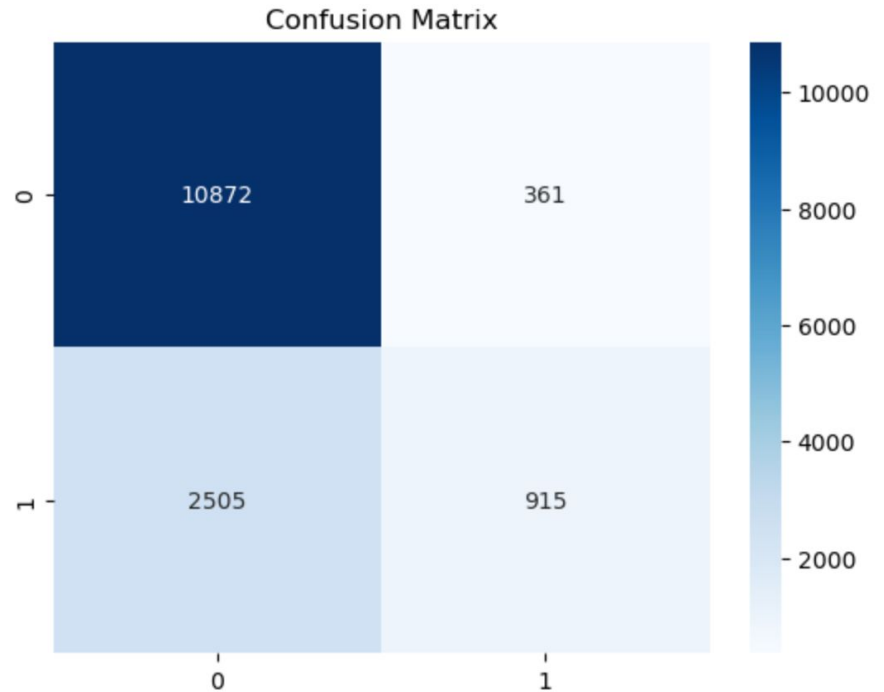
# Visualizing Comparisons



- Income distributions by gender, showing potential disparities.
- Bar plots to compare income distribution across different marital statuses.
- Married individuals tend to have higher income levels.

# Exploring Correlation

- Education level and income.
- Work hours and income.
- Age and income.



# Hypotheses and Further Questions

## Hypotheses:

- Does advanced education always lead to higher income, or are there exceptions based on occupation?
- How does marital status influence income, and does it vary by gender?

## More questions that can be asked:

- How do race and gender together influence income?
- Are there significant regional differences in income levels?

# Conclusion & Next Steps

## Keyinsights:

- Education and occupation are strong predictors of income.
- Work hours and marital status also influence income but require nuanced understanding.

## The next steps:

- Investigate gender disparities further.
- Explore regional income differences.
- Apply more advanced models to predict income based on multiple factors.